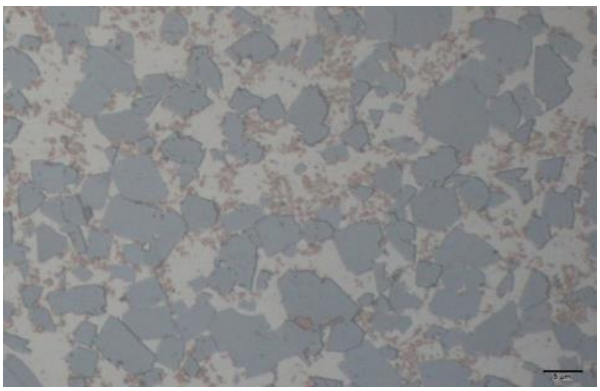
Cemented Carbide having Superior Oxidation resistance

TWM80

TWM80 is a cemented carbide which has improved oxidation resistance. TWM80 is developed to reduce oxidative wear or prevent strength reduction under warm/hot temperature condition based on cemented carbides of WM38 with superior heat shock resistance. TWM80 is suitable for forging tools or shearing tools under warm/hot temperature condition.

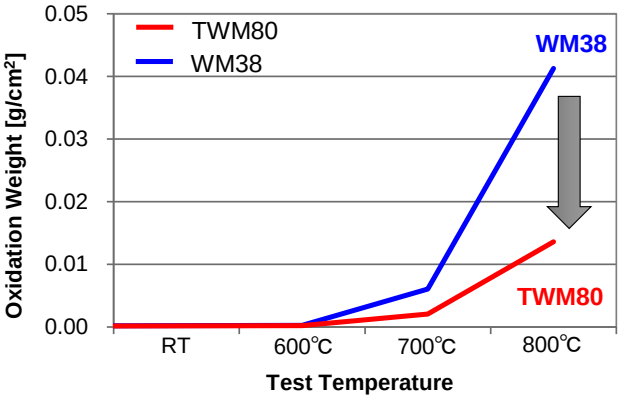
※Patent Registered

Microstructure of TWM80



Fine particle of Titanium-based carbonitride is dispersed in bonded phase.

Comparison of Oxidation Resistance



TWM80's oxidation weight at 800°C is decreased about 70% in comparison with WM38.

Properties

Grades	Specific Gravity	Hardness (HRA)	Transverse Rupture Strength (GPa)	Fracture Toughness ($MPa \cdot m^{1/2}$)
TWM80	11.80	80.5	2.2	22.0

※All data shown are typical values, not guaranteed values.
※We will not compensate any loss and damage caused by using all data.
※We reserve the right to modify the data due to technical progress.
※TWM80 is same grade as developing code TRV80.

Sanalloy Industry Co., Ltd.

We also provide many other grades to meet your needs.
For further information, please access our website.

URL **https://www.sanalloy.co.jp**

2022.10.31